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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,066	04/12/2007	Geoffrey Brent	20996-002US1 12528200/200	1430
26161 7590 09/30/2009 FISH & RICHARDSON PC EXAMINER				
P.O. BOX 1022		KLEIN, GABRIEL J		
MINNEAPOLI	S, MN 55440-1022		ART UNIT	PAPER NUMBER
			3641	
			NOTIFICATION DATE	DELIVERY MODE
			09/30/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

	Application No.	Applicant(s)				
Office Action Comments	10/596,066	BRENT ET AL.				
Office Action Summary	Examiner	Art Unit				
	GABRIEL J. KLEIN	3641				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addres	s			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this commun (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 Ap	oril 2007					
	action is non-final.					
3) Since this application is in condition for allowar		socution as to the me	rite ie			
closed in accordance with the practice under <i>E</i>			1110 10			
closed in accordance with the practice under £	x parte Quayle, 1955 C.D. 11, 45	03 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-68</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrav	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
· · · · — · ·	Jaction requirement					
8)⊠ Claim(s) <u>1-68</u> are subject to restriction and/or e	siection requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex			` '			
	animer. Note the attached Office	Action of formal 10 1	<i>5</i> 2.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the priorical statement. 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stag	je			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atoni Apphoation				

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-36, drawn to a method of blasting plural layers of material in a blast field wherein one layer is subjected to a throw blast and another layer under said one layer is subjected to a stand-up blast.

Group II, claim(s) 37-68, drawn to a second method of blasting plural layers of material in a blast field wherein one layer is subjected to a blast of a first design and another layer under said one layer is subjected to a blast of a second design, including for at least some of the blastholes having charges in both layers of material an inter-hole delay time different for the first layer compared to that of the second layer.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of Group I is that the first body of material is subjected to a stand-up blast in the single cycle of drilling, loading, and blasting, and said second body of material is subjected to a throw blast in said single cycle whereby at least a substantial part of the second body of material is thrown clear of the blast field beyond the position of said at least one free face. Group II does not include the special technical feature of Group I. In fact, Group II does not have a special technical feature of it's own since all

of the limitations are known in the prior art as admitted by Applicant in the specification. Specifically, Applicant admits to a reference titled "The Unique Combination of Drilling and Blasting Problems Faced by New Vaal Colliery, RSA", by Laybourne R.A., et al, 95th Annual General Meeting, Petroleum Society of CIM, 1993, No. 93, CIM Montreal, which describes a using delays between pillar charges and charges in the interburden, during a single cycle of drilling, loading, and blasting in a multi-deck blasting scenario, resulting in a different blast outcome in the second body of material to that of the first body of material. Thus, the Laybourne reference inherently discloses that the second body of material (interburden) is subjected to different inter-hole blast hole delay times in any one row to that of the first body of material (see figure 8, rows running horizontally across the figure).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GABRIEL J. KLEIN whose telephone number is

Application/Control Number: 10/596,066 Page 4

Art Unit: 3641

(571)272-8229. The examiner can normally be reached on Monday through Friday 7:15

am to 3:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GJK

/J. Woodrow Eldred/

Primary Examiner, Art Unit 3641